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(54) Title: BROMINATED POLYMERS, AND FIRE RETARDANT ARTICLES COMPRISING THEM

(57) Abstract: The present invention provides a polymer, an aqueous suspension of a polymer, methods for obtaining them, and fire-retardant products comprising a polymer and antimony oxide. The polymer of the invention is made of (i) at least one non-brominated monomer and (ii) at least one brominated monomer having the structure A-B-C, wherein A is a phenyl, substituted with 3-5 bromine atoms, B is a C1 to C4 alkyl, optionally substituted with 1 to 8 bromine atoms, and C is an acrylic or methacrylic group. An example of a suitable brominated monomer is penta bromo methyl acrylate. Preferable polymers have at least 20%w/w bromine. Preferable aqueous suspensions have at least 40% solid content. Fire-retardant products according to the invention comprise a polymer made of at least one bromine-containing monomer and at least one non-brominated monomer. Preferable fire-retardant products include polymers according to the invention.

WO 2005/070980 A1